

PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

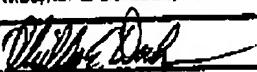
Total Number of Pages in This Submission

Application Number	10/681,462	RECEIVED
Filing Date	10/22/2003	CENTRAL FAX CENTER
First Named Inventor	Michael Kardaukas	JUN 13 2006
Art Unit	1753	
Examiner Name	Alan Diamond	
Attorney Docket Number	SR.US.1	

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input checked="" type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Declaration by Inventor in Support of Petition to Make Special.
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Remarks	

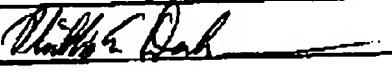
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Mesmer & Deleault, PLLC		
Signature			
Printed name	Phillip E. Decker		
Date	06/13/2006	Reg. No.	39,163

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

571-273-8300

Signature			
Typed or printed name	Phillip E. Decker	Date	06/13/2006

This collection of information is required by 37 CFR 1.6. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

06/13/2006

13:45

LAWYERS CHAMBERS → 15712738300

RECEIVED
CENTRAL FAX CENTER

NO. 066

002

JUN 13 2006

Attorney's Docket No. SR.US.1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Michael J. Kardauskas and
Bernhard P. Piwczyk
Serial No.: 10/691,452
Filed: 10/22/2003
For: DIFFRACTIVE STRUCTURES FOR THE
REDIRECTION AND CONCENTRATION OF
OPTICAL RADIATION

] Examiner: Alan D. Diamond
] Group Art Unit: 1753
]

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION TO MAKE SPECIAL UNDER THE ENERGY PROGRAM
MPEP 708.02 VI; 37 CFR § 1.102(c)(2)(ii)

Applicants hereby petition to make this application special as being for an application that materially contributes to the discovery or development of energy resources.

Accompanying this petition is a declaration by one of the named inventors explaining how the invention materially contributes discovery or development of energy resources.

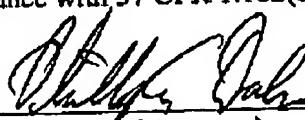
No fee is required with this petition, in accordance with 37 CFR 1.102(c).

Date:

6/13/06

Reg. No.: 39,163

Tel. No.: (603) 766-1910

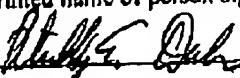

(Signature of Attorney)

Phillip E. Decker
Attorney for Applicants
Mesmer & Deleault, PLLC
1 New Hampshire Ave., Suite 125
Portsmouth, NH 03801

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office (Fax No. 571-273-8300) on June 13, 2006.

Typed or printed name of person signing this certificate: Phillip E. Decker.

Signature: 

**RECEIVED
CENTRAL FAX CENTER**

JUN 13 2006

PATENT

Attorney's Docket No. SR.US.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Michael J. Kardauskas and
 Bernhard P. Piwczyk
 Serial No.: 10/691,452
 Filed: 10/22/2003
 For: DIFFRACTIVE STRUCTURES FOR THE
 REDIRECTION AND CONCENTRATION OF
 OPTICAL RADIATION

] Examiner: Alan D. Diamond
] Group Art Unit: 1753
]
]

**Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450**

**DECLARATION BY INVENTOR IN SUPPORT OF PETITION TO MAKE SPECIAL
 UNDER THE ENERGY PROGRAM (37 CFR § 1.102(c)(2)(ii))**

I, Michael J. Kardauskas, having a business mailing address of 8 River Street, Billerica, Massachusetts 01821, am an Applicant in the above-captioned patent application, and declare as follows:

1. That this invention materially contributes to the discovery or development of energy resources by greatly increasing the amount of power that can be produced by a solar panel. The invention harnesses the optical radiation striking the surface of a solar panel that would otherwise be reflected away because the angle of incidence is too great. The invention uses a diffractive layer disposed on the solar panel to redirect and concentrate optical radiation to the photovoltaic cells, thereby increasing power output without increasing the area of photovoltaic cells.
2. That actual tests of the invention have demonstrated a power output increase of about 12%.
3. That the theoretical maximum power output increase is at least 100%.
4. That the increasing scarcity of oil as an energy source and a global shortage of photovoltaic cells make this invention materially important in the development of energy resources.
5. That I believe all the claims in this application as on file are allowable.

6. I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: June 13, 2006

/Michael J. Kardauskas /
(Signature)